12SX7-GT

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TWIN-TRIODE AMPLIFIER

For use with 12-cell storage-battery supply

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:
- Voltage. . . . . 12.6 . . . . . . ac or dc volts
- Current. . . . . 0.3 . . . . amp

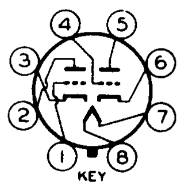
Direct Interelectrode Capacitances (Approx.):°

	Triode Unit No.1	*Triode Unit No.2*	
Grid to Plate.	3.6	3.6	μμf
Grid to Cathode.	3.0	2.8	μμf
Plate to Cathode	0.8	1.2	μμf

Mechanical:

Mounting Position. . . . . Any
Maximum Overall Length . . . . 3-5/16"
Maximum Seated Length. . . . . 2-3/4"
Maximum Diameter . . . . 1-5/16"
Bulb T-9
Base . . . . Intermediate Shell Octal 8-Pin
Basing Designation for BOTTOM VIEW 8BD

Pin 1 - Grid of Unit No.2
Pin 2 - Plate of Unit No.2
Pin 3 - Cathode of Unit No.2
Pin 4 - Grid of Unit No.1



Pin 5 - Plate of Unit No.1
Pin 6 - Cathode of Unit No.1
Pin 7 - Heater
Pin 8 - Heater

CLASS A_1 AMPLIFIER

Values are for each unit

Maximum Ratings, ***Design-Center Values*:**

PLATE VOLTAGE.	300 max.	volts
GRID VOLTAGE:		
Negative bias value.	50 max.	volts
Positive bias value.	0 max.	volts
CATHODE CURRENT.	20 max.	ma.
PLATE DISSIPATION:	2.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage.	26.5	90	250	volts
Grid Voltage:				
From a fixed supply of	-	0	-8	volts
From a grid resistor of	0.05	-	-	megohm
Amplification Factor . .	21	20	20	
Plate Resistance	11500	6700	7700	ohms

° With no external shield.

JUNE 20, 1946 TENTATIVE DATA

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

RCA

12SX7-GT

TWIN-TRIODE AMPLIFIER

Transconductance	1800	3000	2600	μmhos
Plate Current.	1.8	10	9.0	ma.

Maximum Circuit Values (for maximum rated conditions):

Grid-Circuit Resistance per unit. . . . . 1.0 max. megohm

Typical Operation with Resistance Coupling:

See RESISTANCE-COUPLED AMPLIFIER CHART, Type 6F8-G.

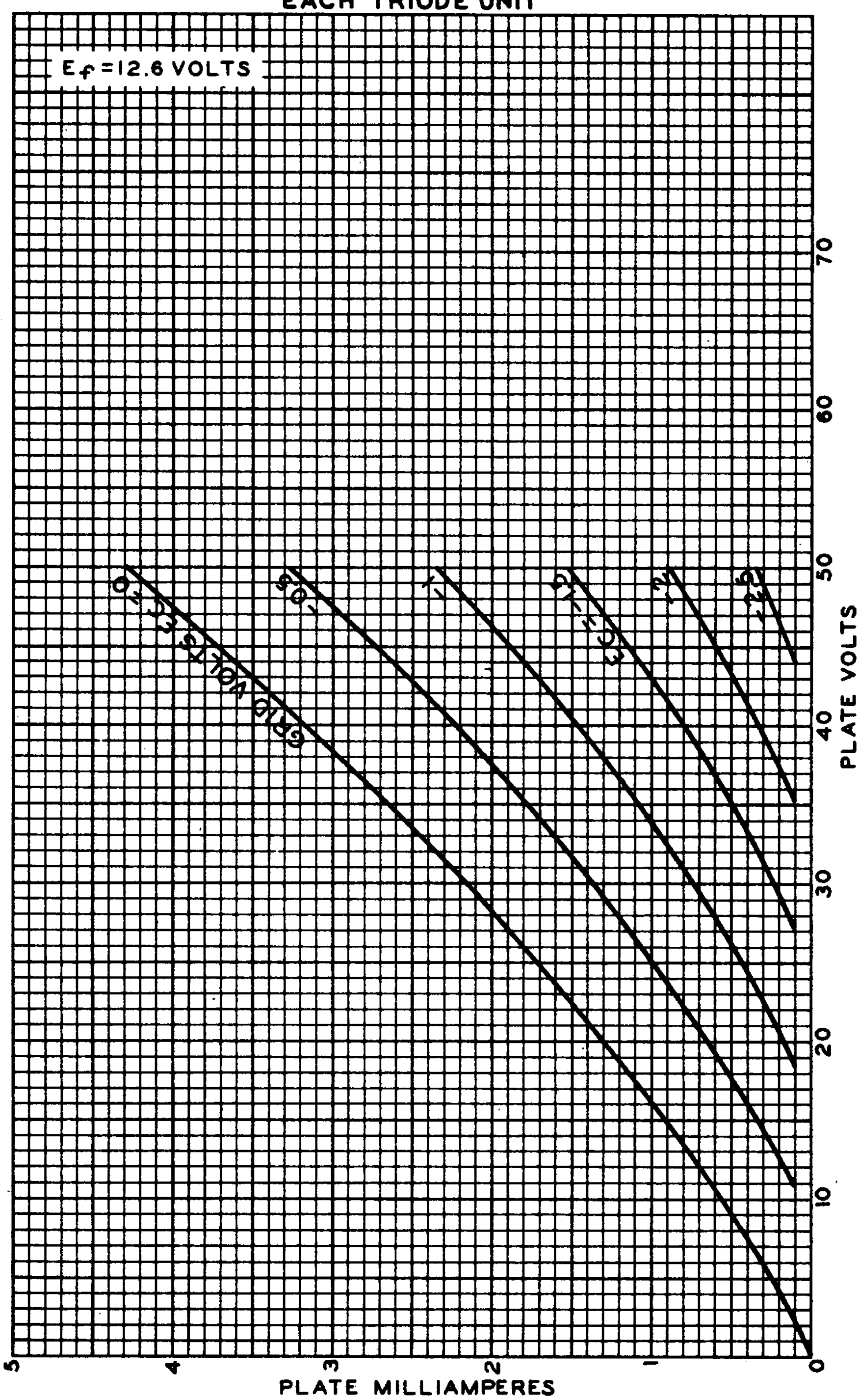
The curves under Types 6J5 and 6SN7-GT also apply to each unit of the 12SX7-GT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT



JULY 11, 1946

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6782